

AMENDMENTS TO THE CLAIMS

1. (currently amended): A propagation system for extending into an enclosure a wireless coverage area provided by a base station located outside of the enclosure, the propagation system comprising:

an integrated propagation relay, the integrated propagation relay including at least one antenna for transmitting to and receiving from the base station wireless signals in a first set of frequencies, and for transmitting into and receiving from inside of the enclosure wireless signals in a second set of frequencies, and a frequency converter for converting between the first set of frequencies and the second set of frequencies, wherein the at least one antenna and the frequency converter are located within a single housing; and

a first mobile station interface port located in the enclosure, the first mobile station interface port including at least one antenna for transmitting and receiving wireless signals in the first set of frequencies and for transmitting and receiving directly with the integrated propagation relay wireless signals in the second set of frequencies, the first mobile station interface port including a frequency converter for converting between the first set of frequencies and the second set of frequencies.

2. (previously presented): The propagation system of claim 1, wherein the integrated propagation relay includes a first antenna for transmitting and receiving wireless signals in the first set of frequencies and a second antenna for transmitting and receiving wireless signals in the second set of frequencies.

3. (original): The propagation system of claim 1, wherein the at least one mobile station interface port includes a first antenna for transmitting and receiving wireless signals in the first set of

frequencies and a second antenna for transmitting and receiving wireless signals in the second set of frequencies.

4. (previously presented): The propagation system of claim 1 further comprising:

a repeater for receiving wireless signals from the integrated propagation relay in the second set of frequencies and for transmitting the wireless signals in the second set of frequencies to another repeater or to a mobile station interface port other than the first mobile station interface port.

5. (previously presented): The propagation system of claim 1 further comprising:

a repeater for receiving wireless signals in the second set of frequencies from another repeater or a mobile station interface port other than the first mobile station interface port and for transmitting the wireless signals in the second set of frequencies to the integrated propagation relay.

6. (previously presented): The propagation system of claim 1, further including a plurality of

mobile station interface ports located in the enclosure, each one of the plurality of mobile station interface ports including at least one antenna for transmitting and receiving wireless signals in the first set of frequencies and in the second set of frequencies and further including a frequency converter for converting between the first set of frequencies and the second set of frequencies.

7-8. (canceled).

9. (previously presented): The propagation system of claim 6, wherein each one of the

plurality of mobile station interface ports is located in the enclosure, and wherein at least one of the

plurality of mobile station interface ports transmits directly to the propagation relay and receives directly from the integrated propagation relay wireless signals in the second set of frequencies.

10. (original): The propagation system of claim 9 further comprising:

at least one mobile station, wherein the at least one mobile station is capable of communicating with at least one of the plurality of mobile station interface ports in the first set of frequencies.

11. (currently amended): A propagation system for providing wireless communications between at least one mobile station located in an enclosure and a base station located outside of the enclosure, the base station transmitting wireless signals at a first downlink frequency and receiving wireless signals at a first uplink frequency, the mobile station transmitting wireless signals at the first uplink frequency and receiving wireless signals at the first downlink frequency, the propagation system comprising:

at least one integrated propagation relay, the at least one integrated propagation relay transmitting within the enclosure at a second downlink frequency wireless signals received from the base station at the first downlink frequency, the at least one integrated propagation relay transmitting to the base station at the first uplink frequency wireless signals received from inside of the enclosure at a second uplink frequency;

wherein the integrated propagation reply comprises a first antenna for transmitting to the base station wireless signals at the first uplink frequency and for receiving from the base station wireless signals at the first downlink frequency, a second antenna for transmitting within the enclosure wireless signals at the second downlink frequency and for receiving from the enclosure wireless signals at the second uplink frequency, and a converter for converting between the first and second downlink frequencies and between

the first and second uplink frequencies, and wherein the first antenna, the second antenna and the converter are all located within a single housing.

at least one mobile station interface port located in the enclosure, the at least one mobile station interface port transmitting directly to the at least one integrated propagation relay at the second uplink frequency wireless signals received from the at least one mobile station at the first uplink frequency, the at least one mobile station interface port transmitting to the at least one mobile station at the first downlink frequency wireless signals received at the second downlink frequency.

12. (canceled).

13. (original): The propagation system of claim 11, wherein the at least one mobile station interface port includes:

a first antenna for transmitting to the at least one mobile station wireless signals at the first downlink frequency and for receiving from the mobile station wireless signals at the first uplink frequency; and

a second antenna for transmitting wireless signals at the second uplink frequency and for receiving wireless signals at the second downlink frequency.

14. (original): The propagation system of claim 11 wherein the first set of frequencies is within the range of approximately 824 MHz to 1.910 GHz.

15. (original): The propagation system of claim 11 wherein the second set of frequencies is within the range of approximately 40.66 MHz to 2.5 GHz.

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16. (original): The propagation system of claim 11, wherein the at least one mobile station interface port includes a plurality of mobile station interface ports located in the enclosure.

17. (original): The propagation system of claim 16, wherein a first mobile station interface port of the plurality of mobile station interface ports is capable of sending to a second mobile station interface port of the plurality of mobile station interface ports at the second downlink frequency and where the second mobile station interface port of the plurality of mobile station interface ports is capable of receiving from the first mobile station interface port of the plurality of mobile station interface ports at the second downlink frequency.

18. (original): The propagation system of claim 16, wherein a first mobile station interface port of the plurality of mobile station interface ports is capable of sending to a second mobile station interface port of the plurality of mobile station interface ports at the second uplink frequency and where the second mobile station interface port of the plurality of mobile station interface ports is capable of receiving from the first mobile station interface port of the plurality of mobile station interface ports at the second uplink frequency.

19. (previously presented): The propagation system of claim 16, wherein each one of the plurality of mobile station interface ports is located in the enclosure, and wherein at least one of the plurality of mobile station interface ports transmits directly to the at least one integrated propagation relay wireless signals at the second uplink frequency and receives directly from the at least one integrated propagation relay wireless signals at the second downlink frequency.

20. (original): The propagation system of claim 11, wherein the at least one integrated propagation relay includes a plurality of integrated propagation relays, and where each one of the plurality of integrated propagation relays is capable of receiving from the base station at the first downlink frequency and sending to the base station at the first uplink frequency, and where each one of the plurality of integrated propagation relays is capable of sending to the at least one mobile station interface port at the second downlink frequency and receiving from the at least one mobile station interface port at the second uplink frequency.

21-30. (canceled).

31. (previously presented): The propagation system of claim 1, further comprising:
a repeater for receiving wireless signals in the second set of frequencies, for converting the wireless signals in the second set of frequencies to wireless signals in a third set of frequencies, and for transmitting the wireless signals in the third set of frequencies to another repeater or to a mobile station interface port other than the first mobile station interface port.

32. (previously presented): The propagation system of claim 1, wherein the integrated propagation relay comprises a filtering subsystem for filtering wireless signals in the first set of wireless frequencies or for filtering wireless signals in the second set of frequencies to improve a carrier to interference ratio.

33. (previously presented): The propagation system of claim 1, wherein the first mobile station interface port comprises a filtering subsystem for filtering wireless signals in the first set of wireless frequencies or for filtering wireless signals in the second set of frequencies to improve a carrier to Interference ratio.

34. (previously presented): The propagation system of claim 1, wherein the integrated propagation relay includes a frequency negotiation subsystem for negotiating with the propagation relay to determine which frequencies in the second set of frequencies provide approximately a best reception between the integrated propagation relay and the first mobile station interface port.

35. (previously presented): The propagation system of claim 1, wherein the first mobile station interface port includes a frequency negotiation subsystem for negotiating with the integrated propagation relay to determine which frequencies in the second set of frequencies provide approximately a best reception between the integrated propagation relay and the first mobile station interface port.